

Technical Data Sheet

Capatue™ SCA-A67X

Abstract

SCA-A67X is a versatile amino functional coupling agents used over a broad range of applications to provide superior bonds between inorganic substrates and organic polymers. The secondary amine function reacts with a wide array of thermoset, thermoplastic and elastomeric materials.

Chemical Name

Bis[3-(triethoxysilyl)propyl]amine

CAS Registry Number

13497-18-2

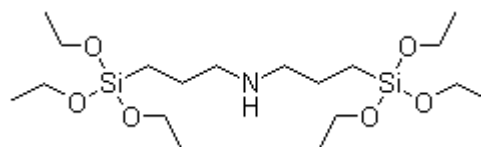
EINECS

236-818-1

Molecular Formula

$C_{18}H_{43}NO_6Si_2$

Molecular Structure



Molecular Weight

425.71

Equivalent

Product	Supplier
1122	Evonik (formerly Degussa)

Typical Properties

Index	Value
Appearance	Colorless to slight yellow, transparent

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	liquid
Specific Gravity (ρ_{20}), g/cm ³	0.97
Boiling Point (760mmHg), °C	>300
Viscosity	5.5 mPa. S
Flash Point, °C	> 140
Solubility	Completely and immediately soluble in alcohol and aromatic and aliphatic hydrocarbons. Ketones are not recommended diluents. Will react with water.

Applications and Performance

Bis(triethoxysilylpropyl)amine (CAS No. 13497-18-2), Silane coupling agent SCA-A67X, is an important additive for many applications. Examples are:

1. Silane-endcapped Polyurethanes: Silane-terminated polyurethanes can be prepared by reacting traditional NCO-terminated urethane prepolymers with SCA-A67X. It can react very fast with free isocyanate groups and lead to a high converted silane-endcapped product. Side reactions can be significantly reduced. SCA-A67X is the most recommended silane for endcapping Polyurethanes. It leads to colorless low-viscosity PU prepolymers with improved UV stability and reduced yellowing tendency of sealants. Another benefit of SCA-A67X is that it does not contain traces of toxic aniline. Examples of applications where SCA-A67X used include polyurethanes for structural adhesives, parquet adhesives and over-paintable hybrid sealant.
2. Glass fiber/glass fabric composites: As a finish or size constituent.
3. Mineral fiber insulating materials and abrasives: As an additive to phenolic resin binders.
4. Foundry resins: As an additive to phenolic, furan and melamine resins.
5. Sealants and adhesives: As a primer or additive and for chemical modification.
6. Mineral-filled polymers (composites) or HFFR cables: For pretreatment of fillers and pigments.
7. Paints and coatings: As an additive and primer for improving adhesion to the substrate.

Packing

The regular packing of this product is 25kg plastic pail, 200L steel drums and 1000L immediate bulk container.

Storage and Shelf Life

Should be stored in dry, cool, ventilated room; keep away from water, moisture, high temperature and fire. This product has a shelf life of at least 18 months if stored in tightly closed original container at room temperature.

If this product is kept beyond the shelf life recommend on the product label, it is not necessarily unusable, but a quality control should be performed on the properties relevant to the application.

Product Safety and Handling

When considering the use of any Capatue products in a particular application, you should read our latest Material Safety Data Sheets (MSDS) thoroughly for handling instructions, personal protective equipment if necessary, other safety issue and toxicological data as well as for information on proper transportation, storage and use to ensure that the use you intend can be accomplished safely. Our latest Material Safety Data Sheets (MSDS) and other product safety information are available at www.capatue.com or upon request, from our customer service department.

Use of other material in conjunction with Capatue products may require addition precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

This product is for industry use only; it is neither tested nor represented as suitable for food, medical or pharmaceutical uses.

Limited Warranty Information

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Capatue's products are safe, effective, and fully satisfactory for the intended end use.

Suggestions of use shall not be taken as inducements to infringe any patent.

Capatue's sole warranty is that the product will meet the Capatue sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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Customer must do enough tests before their regular production to ensure that our product is suitable for their specific application.